

Sub AI

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at the first node,

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at the second node,

concluding that the second node is the leader node in response to determining that the second node is the oldest.

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concluding that the third node is the leader node in response to determining that the third node is the oldest.

8. The method of claim 7, further comprising periodically repeating the method to redetermine which node of the node and the plurality of other nodes is the leader node.

9. The method of claim 7, wherein transmitting the information particular to the node comprises multicasting the information particular to the node.

10. The method of claim 7, wherein the information particular to the node comprises age information particular to the node, and the information particular to the other nodes comprises age information particular to the other nodes.

11. The method of claim 7, wherein the criteria comprises electing the leader node as the oldest node based on the age information.

10 12. The method of claim 7, wherein the method is performed by execution of a computer
program stored on a machine-readable medium by a processor.

13. A system comprising:

a plurality of redundant nodes; and,

a leader node elected from the plurality of redundant nodes by using a weak leader

15 election approach.

14. The system of claim 13, wherein each node of the plurality of redundant nodes exchanges information with other nodes of the plurality of redundant nodes, and

determines whether it is the leader node based on the information received from the other nodes.

15. The system of claim 14, where the information comprises age information.

16. An architecture for an automation system, the automation system to control and
5 monitor a plurality of devices, the architecture comprising:

at least one look-up service to maintain at least one database of the plurality of
devices by a plurality of device attributes including device type and physical location,
and of a plurality of device objects corresponding to the plurality of devices by mapping
a name for each device object to at least one address for each device object;

10 a soft-state store to manage at least periodic refresh information for the plurality of
devices and the plurality of device objects, the refresh information managed by the soft-
state store as a plurality of soft-state variables;

a publication/subscription eventing component to enable subscriptions to events
related to changes in the plurality of soft-state variables managed by the soft-state store;

15 and,

at least one system management daemon having a plurality of redundant instances in
which a leader instance among the plurality of redundant instances is elected by using a
weak leader election approach.

17. The architecture of claim 16, wherein the at least one system management daemon
20 comprises a power line monitoring daemon.

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